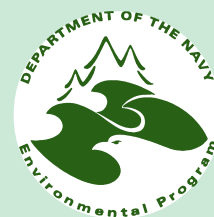




# ENVIRONMENTAL *News*



Northern Division,

Naval Facilities Engineering Command

Summer 2000

## RAC MILESTONE REACHED

By Tim Bramhall

*Head, Environmental Design Branch*

Sometime in April a major milestone in the NorthDiv remediation world was reached when Foster Wheeler (FW) Environmental Corporation's remedial action contract (RAC) surpassed \$200,000,000 for environmental cleanup contracts. Combined with the work previously completed under LantDiv's Remediation Services Corporation (OHM) contract, NorthDiv has contracted for over \$250,000,000 worth of environmental cleanups in a six-year period. More than \$200,000,000 of the total is now completed work in place.

These projects, mostly in NorthDiv's 10-state area, have varied from simple dig and haul cleanups to major landfill closures and complicated pump and treats. The projects have been mainly funded through ERN and BRAC money, but major projects have also been done for other Navy clients and NASA. During this period FW's work has been exceptional, with the contractor receiving almost 93% of the available award fee. After a year-long selection process, FW was awarded a second five-year \$125,000,000 RAC contract in March of 2000.



### Shultz Named NavFac Applied Biology Program Manager

Harvey Shultz, former director of NorthDiv's Environmental Services Division, has been named to replace recently retired Bill Gebhart, NavFac's former applied biology program manager.

Bill and Harv were hired the same day in 1966 by the Bureau of Yards and Docks and worked initially as GS-5



PDCs at NorthEastDiv in Boston. Bill headed the program for almost 20 years, most recently working out of the Naval Facilities Engineering Service Center's (NFESC) East Coast Detachment at the Washington Navy Yard. Harvey will stay right where he is in Lester, PA. Most of the functions in his Environmental Services Division have already been reassigned within NorthDiv's Environmental Department.

NavFac's applied biology program manager coordinates Navy pest management and pesticide compliance/minimization efforts worldwide. The incumbent provides pest management expertise to the Assistant Secretary

*(Continued on page 12)*



## From the Department Head's Desk

By **Conrad Mayer, P.E.**  
Head, Environmental Department

The NavFac Environmental Directors got together in Norfolk in July for one of our irregularly scheduled meetings. This time we were joined part time by Mr. Gary Edwards and CDR Ralph Snow, the Environmental Managers for CINCLANTFLT and CINCPACFLT respectively. This was another step in furthering our partnership with the Fleet in our joint mission of ensuring that naval operations are compatible with environmental protection.

Much of our discussions centered on the challenges related to ranges/encroachment, training exercises, NEPA and public participation. Both Fleet Headquarters are focusing more and more on operational issues while offloading shore compliance to the Regions.

Some recent developments should enable EFDs/EFAs to increase their level of support to the fleets in these new focus areas. Top level discussions with CNO (N45) have resulted in the clarification that NEPSS funding can be used to support compliance with NEPA and Natural Resources/Cultural Resources regulations. Previously, these areas were considered ineligible for NEPSS support. (Note: actual preparation of NEPA documents remains a reimbursable effort.)

This change in policy followed on the heels of the transfer of the Environmental Planning/NEPA function at NavFacHQ from the Base Development Directorate to the Environmental Directorate. In that regard, Mr. Joe Hautzenroder also attended for the first time, joining his headquarter counterparts for Environmental Compliance and Environmental Restoration.

No corresponding organizational changes are planned here at NORTHDIV. This realignment was anticipated, and during our recent re-engineering efforts we sought to create a similar relationship within our Team Organization.

## V-TEAM BROCHURE

NorthDiv's virtual team of environmental IDQ AE's have developed a brochure outlining their vision, mission, specific capabilities, and points of contact. The brochure is in loose-leaf form located between pages 6 and 9. Simply pull out the sheet and fold along the dotted lines.

We encourage readers to view and/or download NorthDiv's  
**Environmental News**  
in full color at  
[www.efdnorth.navfac.navy.mil](http://www.efdnorth.navfac.navy.mil)



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The Northern Division Environmental Department does not endorse companies or products mentioned. Our primary target audience consists of Navy people at activities in our area of responsibility (the northeastern states) who are involved in environmental programs. The views and opinions expressed in this publication are not necessarily those of the Department of the Navy. We invite your contributions, comments and questions. To hold down costs, the Environmental News is printed in black and white. Visit our website if you prefer to view or print a full-color version.

**CAPT Joseph W. Zorica, CEC, USN**  
Commanding Officer

**Conrad Mayer**  
Head, Environmental Department

**Harvey Shultz**  
NavFac Applied Biology Program Manager  
Editor at Large

**Greg Procopio**  
Editor  
Layout/Graphics

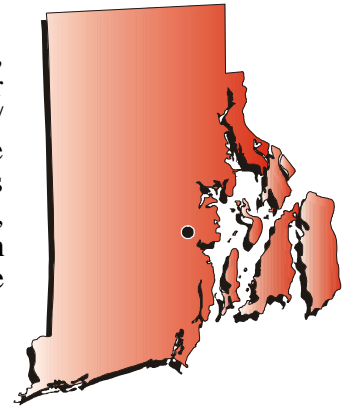
**Elaine Ferranti &  
Tiana Johnson**  
Word Processing



Printed on  
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Recyclable Paper

# Landfill Closure Creates Future Recreation Space

At the former Naval Construction Battalion Center (NCBC) in Davisville, Rhode Island, a 15-acre landfill was created and used from 1942 until 1972 for disposal of household waste, as well as waste generated during maintenance/construction activities. Naval operations at NCBC ceased in 1991 under the Base Realignment and Closure Act (BRAC II). Some of the substances deposited in the landfill include volatile organic compounds (VOCs), waste oil, metals and polychlorinated biphenyls (PCBs). The landfill is adjacent to Allen Harbor, a recreational area within Narragansett Bay. Northern Division is the Installation Restoration (IR) Program Manager for this BRAC installation.



## The Base Closure Team

The Navy worked with EPA Region I, Rhode Island Department of Environmental Management (RIDEM), the United States Fish and Wildlife Service (USFWS), the National Oceanic and Atmospheric Administration (NOAA), Coastal Resources and Management Zone (CRMZ), the Rhode Island Economic Development Corporation (RIEDC), the town of North Kingstown, the RAC contractor, the Restoration Advisory Board (RAB) and other interested community members to develop a remediation strategy. "We had regular meetings with the base closure team, bimonthly or more depending on the level of activity," said John Mayhew, remedial technical manager for NorthDiv. "We kept everyone informed through daily phone calls, e-mails, faxes, etc. Whenever someone had a major concern, we'd hold a meeting to address it."

## Coastal Considerations

Since the landfill was close to the shore, the team had to consider the impact of a 100-year storm when planning the remedy. If the landfill cap was extended downward around the landfill edges, studies determined that pressure from high water levels could eventually cause the liner to fail. The impermeable liner was constructed over 85% of the landfill surface to minimize rainwater infiltration, and the wetlands area was integrated into the plan as an erosion buffer and filtration measure. Regulatory requirements generally specify a 3/1 slope for a landfill face, but experience with another coastal landfill project led the Navy to pursue approval of a maximum 2/1 slope to avoid undermining the landfill material and excessive encroachment into the harbor. Taking the stone barrier and wetlands plan into account, the regulators approved the plan.



*Impermeable liner construction*

## Cooperative Efforts

The local community wanted to improve access to the harbor to allow more recreational and economic development opportunities. With cooperation from state and local regulators, the Navy used dredged material from the harbor channel for the creation of the wetlands area. "Combining the two projects saved time and money for the Navy and the community," said Mayhew.



*Silt curtains in use*

*(Continued on page 10)*



# Management of Navy Environmental Information

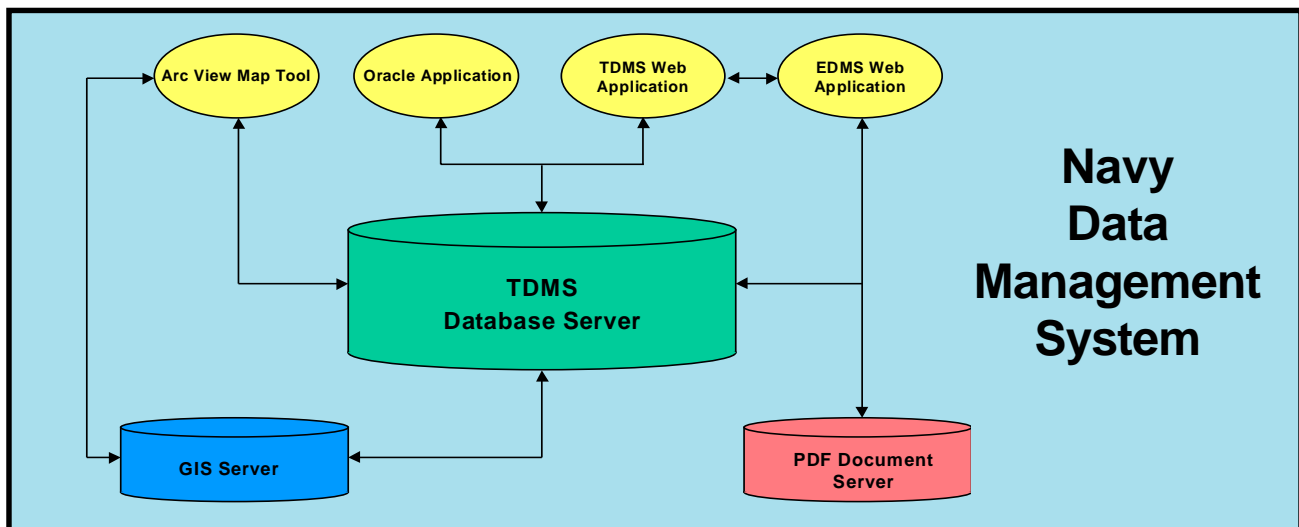
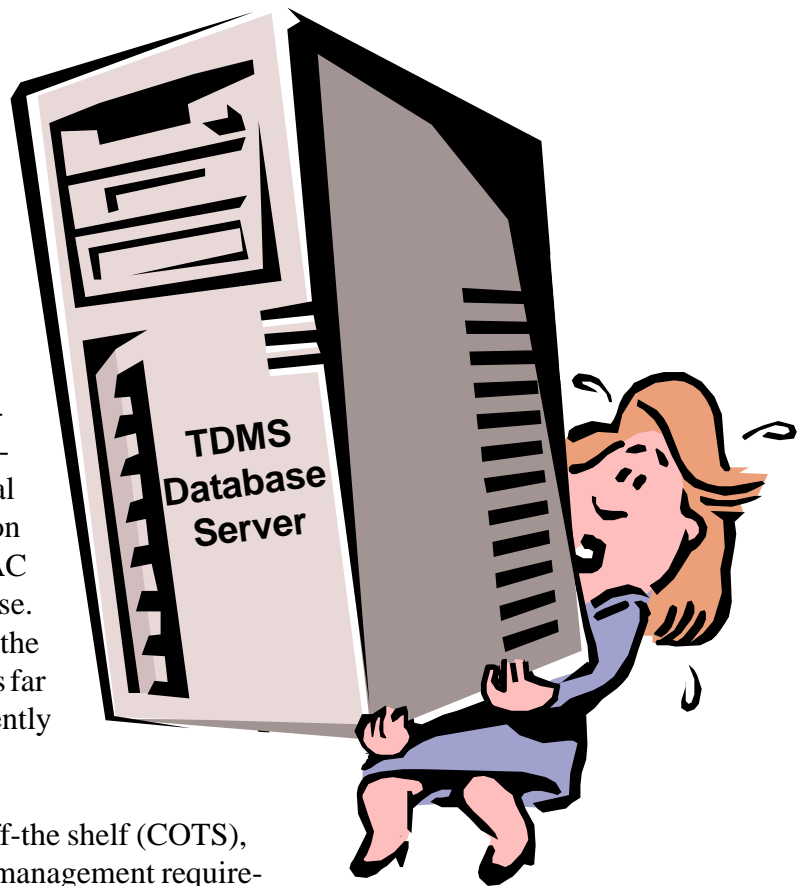
By Kelli Errickson

*Financial Control Specialist, Environmental Dept.*

The NAVFAC Corporation currently manages budgets, project schedules, execution information and financial information in various local databases, as well as in the facilities information system (FIS). For quite some time, the NAVFAC Corporation has needed a “corporate” database. The volume and variety of information that the NAVFAC Corporation tracks and reports on has far exceeded the capabilities and functionality currently offered by the local databases and FIS.

Oracle Projects, a web-based commercial off-the shelf (COTS), was selected to meet the corporation’s project management requirements. Human resource (HR) requirements were added to the scope of the Oracle Projects initiative. Oracle Projects will be implemented at all EFD’s/EFA’s, NFESC and NavFacHq as the “corporate project management system.”

The “Oracle Projects” initiative has high visibility throughout the corporation and has been identified as the EFD Leadership Council initiative for the environmental services business line in the NavFac strategic plan. Implementation of Oracle Projects is on a fast track. The current implementation schedule has production planned for the first quarter of FY-01.



# SENATOR CHAFEE TOURS NIKE SITE

By John Mayhew *Remedial Technical Manager*

**Former NCBC Davisville, RI.** No he wasn't searching for sneakers on the internet. U.S. Senator Lincoln Chafee (RI) in May toured various Navy NPL Sites located at the former NCBC, including a former NIKE missile launch complex. Chafee oversees the EPA's Hazardous waste clean-up program. This tour marked his ninth in Rhode Island. He said each tour gives him insight into environmental problems on a national scale.

This tour was his first at a federal facilities site that has a Federal Facilities Agreement in place. He was pleased at the level of coordination taking place between the Navy, EPA, Rhode Island Department of Environmental Management, Rhode Island Economic Development Corporation, Town of North Kingstown and the Army Corps of Engineers (USACE).

At the request of State Senator John Patterson and representatives of the Town of North Kingstown, Senator Chafee also toured a formerly used defense site (FUDS) where chlorinated solvents are impacting ground water on down-gradient Navy property as well as off site property near a residential community. The site was formerly used as a NIKE missile launch

complex and is under the jurisdiction of the USACE.

Although the FUDS restoration program site is not part of the FFA, Chafee was interested in the differences between the two cleanup programs and the coordination between the Navy and the USACE. Prior to his departure from NCBC, Chafee stated that one of his top priorities was the development and beneficial reuse of sites that were formerly hazardous areas.

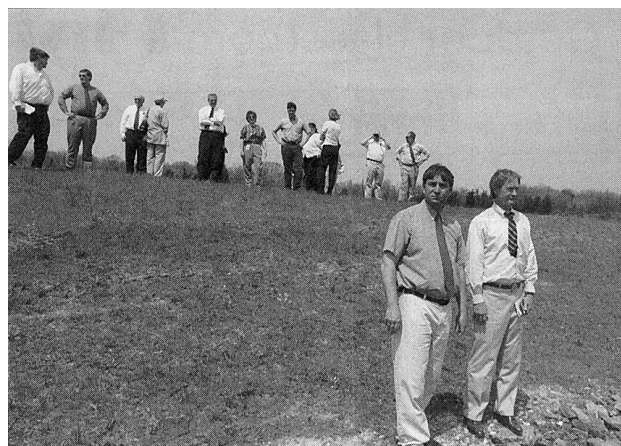
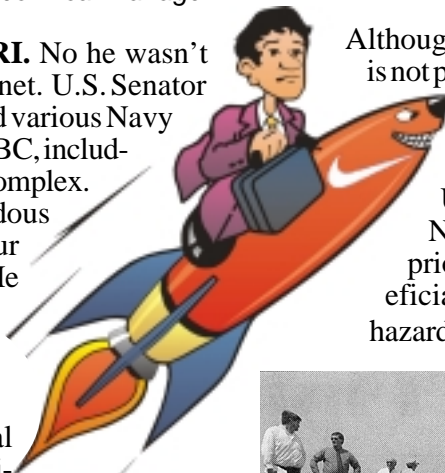


Photo: Ray Clayton. Courtesy of *The Standard-Times* of North Kingstown, RI.

**Hey, who's that guy with John Mayhew? Touring a Navy NPL site at Davisville were Mayhew (left) NorthDiv RTM, and Sen. Lincoln Chafee.**

## Restoration and Utility Upgrades In Sync at NSA Mechanicsburg, PA

By Ed Boyle *Remedial Project Manager*



One of the three 250,000 gallon water towers scheduled for demolition at NSA Mechanicsburg.

Three of Naval Support Activity (NSA) Mechanicsburg water towers will be dismantled and the surrounding contaminated soil removed over the next couple months. Three water towers are being demolished as part of a larger project to upgrade the potable water distribution system on the base. Built in 1940s, the 250,000-gallon tanks were fabricated from steel and originally coated with lead-based paint. Sand blasting and maintenance activities on the tanks resulted in lead, arsenic and polychlorinated biphenyl (PCBs) in soil around the tanks. Sampling performed during the 1999 Site Inspection (SI) characterized the extent of soil contamination. Using the SI sampling data, it was estimated that 4,800 tons of non-hazardous soil and 900 tons of hazardous soil would be removed, in accordance with Pennsylvania Act 2 criteria.

Foster Wheeler Environmental Corporation was awarded the tank demolition contract (a base military construction project), and the soil remediation contract (an installation restoration project), to provide continuity and coordinated project management of both tasks. The combined cost of the water tank demolition and soil removal is \$1.1 million. Foster Wheeler began dismantling the water towers on June 17. Once the towers are dismantled, contaminated soil from beneath the tanks will be excavated and disposed off site. Soil removal and backfilling with clean fill is scheduled for completion on September 13, 2000.

# Phytoremediation – Plants Do The Dirty Work

By Peter Nimmer, P.G.

*EA Engineering, Science, and Technology*

Phytoremediation—the use of plants to clean soil and ground water—can offer an alternative to more traditional remedial measures. The use of plants instead of other engineered remediation can be far less expensive and can provide environmental benefits. This remedial approach should no longer be considered experimental, and has been accepted by the U.S. Environmental Protection Agency (EPA) and many state regulators in lieu of soil excavation or groundwater extraction networks. Depending on site conditions, phytoremediation can provide long-term reduction in contaminant concentrations. Sites that have successfully used phytoremediation include ground water impacted by trichloroethene, petroleum, tritium, and BTEX, and soils impacted by metals, explosives, polycyclic aromatic hydrocarbons, and petroleum.

## Some advantages of phytoremediation include:

- Demonstrated to be effective for reducing soil impacts by metals, pesticides, explosives, polycyclic aromatic hydrocarbons, radionuclides, and petroleum.
- Effective for reducing groundwater impacts by chlorinated solvents, tritium, and petroleum.
- Trees can be used to naturally extract and treat impacted groundwater. Plant roots degrade contaminants, and plants pass volatile organic compounds from groundwater to air—essentially acting as a pump-and-treat system.
- Phytoremediation can require less upfront capital and long-term operations and maintenance costs than excavation, pump-and-treat, or other intrusive remedial measures.
- Trees, especially poplars and willows, withdraw considerable groundwater and have been used to de-water areas within slurry walls or landfills.
- Plants can be selected that have resistance to high levels of contaminants, and phytoremediation can be effective in areas impacted by high concentrations of contaminants.
- Ability to be completed without significant disruption of most site activities.
- Can provide site enhancement due to plant additions.
- Plants used are commonly available and may be available for a wide variety of hot and cold climates.
- Can be used at Brownfield sites in urban areas.



*Your next pump and treat system could look like this.*

## Some disadvantages of phytoremediation include:

- Generally requires longer time-scale than more traditional remedial measures (i.e., several years to decades).

*(Continued on page 14)*



Introducing the

# "V-Team"

The "V-Team" is an innovative partnership of environmental consultants under contract with Northern Division Naval Facilities Engineering Command who provide full service environmental support to all activities in the 10-state Northern Division region. We are local and can help support your management and control of a full range of environmental concerns. Five-year indefinite quantity contracts are in place.

## Experience

Our consultants have combined experience of over 223 years with more than 13,750 personnel resources. We have extensive DoD and Navy experience on multi-discipline projects like yours.

## Vision

To provide world-class professionals, responsive service, and quality products while keeping you involved throughout the process.

## Mission

To form a partnership that collectively improves access and responsiveness to your needs.

**The V-Team combines existing resources that enhance each firm's capability for producing quality results on time.**

## V-Team

### Commitment

*"We are always looking for ways to improve service to our clients. The V-Team concept presents a new avenue for making use of our existing resources without any added costs."*

Carol Mayo, P.E., Head, Environmental Department,  
Northern Division, Naval Facilities Engineering Command

*"Our aim is to form a seamless partnership with our customers so that their requirements become our challenges and our multidisciplinary capabilities provide their solutions."*

Jim McNulty, President and CEO, Parsons Corporation

*"Dewberry & Davis fully supports the 'V-Team' initiative. This virtual partnership of NorthDiv's environmental consulting contractors is a unique method of providing cost effective environmental services to Naval Activities."*

Lawrence W. Ollinger, P.E., Managing Principal, Dewberry & Davis

*"Woodard & Curran is continually striving for ways to bring more value to our clients. This partnership is about improving the quality of service and its delivery. Our organization endorses and supports this effort."*

Al Curran, P.E., Chief Executive Officer, Woodard & Curran

*"We are committed to creating a dynamic, coordinated team to help improve the operational effectiveness and efficiency of Northern Division and the activities it supports."*

Jeffrey R. Beaman, P.E., Vice President, Northern Federal Program Director, Malcolm Pirnie, Inc.



# Virtual Team

*an innovative partnership providing a full range of environmental services*





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## DEWBERRY & DAVIS

Contract No. N62472-98-D-1445

### Environmental/Industrial Hygiene

- Indoor Air Quality
- Asbestos
- Lead-Based Paint
- Radon
- Safety
- CADD
- GIS

Dewberry & Davis provides full service environmental/industrial hygiene services that include building inspections, risk assessments, abatement designs, operations and maintenance plans, third party monitoring services, and the development of geographical information systems.

## MALCOLM PIRNIE

Contract No. N62472-97-D-1440

### Hazardous Waste/Hazardous Materials

- Plans
  - Studies
  - Field Sampling
  - Laboratory Analysis
  - Designs
  - Permit Applications
- for:
- Hazardous Materials
  - Hazardous Waste Handling
  - Storage/Treatment/Disposal
  - Pollution Prevention

Malcolm Pirnie provides a wide variety of environmental engineering services which include hazardous waste permits and planning, oil and hazardous materials spill plans, site investigations, underground storage tank projects and associated design services.

## PARSONS

Contract No. N62472-98-D-1449

### Air Pollution Control/Compliance

- Air Permitting
- Emission Control Equipment Design
- Annual Emission Statements
- Clean Air Act Compliance
- Ozone Depleting Substance Alternatives
- Emission Reduction Credits
- Dispersion Modeling
- Stack Testing
- Air Monitoring

Parsons provides comprehensive air pollution control and compliance services. To date, Parsons has provided Clean Air Act regulatory compliance, emissions inventories, Title V permitting, and related air quality services to 10 Northern Division Activities.

## WOODARD & CURRAN

Contract No. N62472-98-D-1441

### Water, Wastewater, & Infrastructure Engineering

- Studies
- Conceptual Design
- System Modeling
- Design/Build & Permitting
- Collection/Distribution
- Treatment Plant Design/Optimization
- SCADA Integration
- Plant Operation

### Compliance Plans

Woodard & Curran has completed several environmental and infrastructure projects at Northern Division Activities ranging from backflow prevention surveys and treatment plant optimization to water distribution system modeling and Integrated Contingency Planning (ICP).



## RISK TEAM TAKES THE SILVER MEDAL



**By Harvey Shultz**

*Applied Biology Program Manager*

NorthDiv's ecological/human health risk assessment team was established to provide technical support to installation restoration remedial project managers (RPMs) as well as engineers-in-charge of non-CERCLA environmental cleanups. Risk Assessment is a key element in determining whether a site requires cleanup and, if so, establishing which levels are protective.

Without good risk assessments, cleanup demands can be imposed which may not be adequately supported by science. This can result in extensive design and construction projects collectively costing millions of dollars that are at best overzealous and at worst potentially unnecessary. Although each of the team members is assigned as the ecological/human health point of contact for specific ac-

tivities, their schedules are so complex that they frequently "cover" for each other. Their day-to-day work includes developing cleanup strategies for specific sites with the remedial project managers (RPMs). They develop scopes of work for complex projects, negotiate with A/Es, review submissions, support RPMs at restoration advisory boards (RABs), and provide technical support at meetings with regulators and lawmakers.

The team has distinguished itself by improving the way risk assessment is used as a tool at NorthDiv and exported its efforts to the rest of the NavFac family and to DoD. The team provides the Navy's only representative on the Environmental Protection Agency's (EPA) recently formed steering committee for ecological soil screening level work. This will result in standardized nationwide soil screening levels for terrestrial ecological risk assessments and guidance on how to use them. That product is expected to save the Navy, other DoD agencies and private industries millions of dollars.

For the following accomplishments they received, in June at LantDiv's employee recognition ceremony, a silver medal for process improvement by a team: The Team is pursuing innovative technologies to stabilize mercury-contaminated sediment at a cleanup site, which will hopefully result in better cleanup at a lower price. They wrote a successful proposal for a \$450,000 NorthDiv-managed study at client activities to demonstrate toxicity identification evaluation (TIE) technology. They played a significant role in the initial use of TIE that resulted in the avoidance of millions of dollars for potential removal of sediment.

They are providing continuing leadership on NAVFAC's ecological risk assessment forum, including input to prepare a form charter. They assisted in developing the CNO policy letter entitled "Navy Policy for Conducting Ecological Risk Assessments," which brought consistency and cost savings to what was previously a loosely managed process. They continue to help develop NAVFAC-wide guidance for conducting ecological risk assessments, coordinating and reviewing draft documentation for both ecological and human health risk assessment. They collaborated on three technical papers to support the guidance for ecological and human health risk assessments.

The final product, when posted on the NAVFAC

*(Continued on page 11)*

## Landfill Closure

(Continued from page 3)

### Future Plans

The capped landfill will eventually become a recreational area with hiking trails and wildlife habitats. The Navy is currently reseeded and monitoring the establishment of vegetation on the landfill surface due to recent drought conditions, and a long-term site management plan is under development.

### The strategy agreed upon was as follows:

- Stabilize the landfill's edge and grade it to form a more gradual slope
- Stop erosion of the landfill material by building a stone barrier on the seaward side
- Use silt curtains to prevent siltation of harbor areas during the process
- Install an impermeable cap over the majority of the landfill surface
- Create area for wetlands using clean, dredged material from the Harbor entrance channel
- Plant indigenous grasses (*Spartina alterniflora*) to establish wetlands environment
- Monitor the site to ensure that the remedy stays effective



*Original landfill face*



*Wetlands creation area*



## IN THE PINK

As removals or encapsulations of asbestos and lead-based paint wind down after decades of work, could the environmental industry be closing in on a replacement medium of concern?

Studies of lab animals and workers indicate that exposure to fiberglass and mineral wool may cause

an increase in cancer and chronic respiratory disease. Industry associates are partnering to protect 200,000 workers who manufacture, handle, install, or remove fiberglass-containing products.

A voluntary exposure limit has been set at one fiber per cubic centimeter (f/cc) 8-hour time-weighted average (compared to the current standard of about 50 f/cc). NIOSH-approved respirators will be worn during high-exposure tasks. The manufacturer's industry group will monitor exposures and develop a database of exposure limits. OSHA will be watching the industry more closely.

## RISK TEAM TAKES THE SILVER MEDAL

*(Continued from page 9)*

Intranet, will help EFD/A's and their contractors conduct scientifically sound risk assessments and will help client activities understand the risk assessment process and communicate it to the public. They applied good science and common sense to site and background levels of metals or organic compounds (naturally occurring or anthropogenic).

By using EPA's own Risk Assessment Guidance (RAGS) for Superfund, the team was able to technically support their position that the purpose of using site-specific for background comparison purposes is to distinguish between naturally occurring and site-related contamination. (It should only be calculated in certain situations.) This firm, scientifically-founded stance avoids an unwarranted precedent that potentially could cost the Navy millions.

Not all relationships between the team and regulators are contentious, however. In fact, the team partnered with the same region, resulting in reduced sampling requirements at multiple IR sites to save \$80,000. Their efforts have resulted in several "no further action" outcomes in situations that previously could have resulted in expensive cleanups.

The team provided members to the Naval Facilities Engineering Service Center's (NFESC) tiger team that helps other EFD/A's leverage the best ideas for cleanup. At CECOS' request, the Team audited and critiqued the pilot Navy CECOS ecological risk course. They also have since provided instructional support for the course.

NorthDiv's environmental risk assessment team is a team in the truest sense of the word. They help each other. Each takes personal responsibility for his/her work, but they succeed as a unit and don't worry about who might get the perceived credit for a particular outcome.

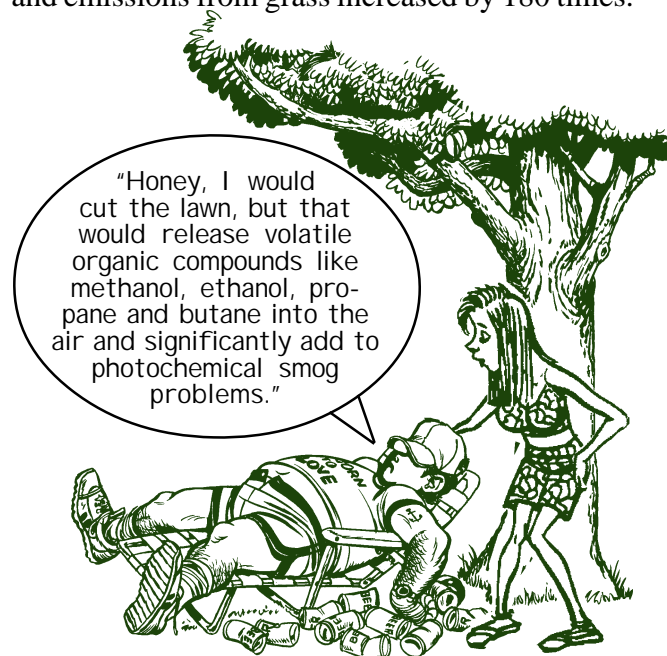
## Environmental Consciousness Starts At Home

Summer is in full swing, and many of us are enjoying our lawns. But if you are like most people, yard work can be a real hassle. Come on; can mowing the lawn really be all that bad?

According to researchers from Australia's Commonwealth Scientific and Industrial Research Organization (CSIRO), it is.

"Plants release highly reactive hydrocarbons that can add significantly to photochemical smog problems," said Ian Galbally, an Australian scientist from CSIRO division of atmospheric research.

The Australian scientists found that after grass is cut, gas release from clover rose by a factor of 80 and emissions from grass increased by 180 times.



Gases released by grass include the volatile organic compounds methanol, ethanol, propane and butane.

Maybe we should propose not mowing our landfill caps to minimize VOC emissions!

### **Name of the Month**

Congratulations to the Office of the Deputy Under Secretary of Defense (Environmental Security) Prevention Team's Eric Spillman. Remember, Eric: Only you can prevent a spill, man.



## Shultz Named NavFac Applied Biology Program Manager

*(Continued from front page)*

of the Navy and Chief of Naval Operations and coordinates the efforts of the NavFac pest management professionals in the EFD/A's. He represents NavFac as a voting member of the Armed Forces Pest Management Board's (AFPMB) eight-person policy-making executive committee. The NavFac applied biology program manager coordinates many DoD and Navy pest management initiatives such as the successful 1993 Measure of Merit to reduce Navy pesticide use by 50%.

Steve Kincaid, BCE, will continue to function as NorthDiv's applied biology program manager, and along with Jeff Davis, BCE, and Christine Eisner, our newest entomologist, will provide pest management services to client activities in the entire Atlantic Division footprint. Greta Deirocini, an environmental protection specialist knowledgeable in the Integrated Pest Management Information System (IPMIS) and in database management, will devote time to the NAVFAC pest management function. Greg Procopio, a graphic artist, editor, and publications manager, also reports to Harv and will spend some of his time supporting the NavFac worldwide Applied Biology effort.

The NAVFAC pest management program is closely linked to the AFPMB. The executive director of the AFPMB, currently Don Driggers, USA, reports directly to the Deputy Undersecretary Secretary of Defense (Environmental Security).

Col. Driggers serves on Ms. Sherri Goodman's staff as the director, defense management. The NavFac/Armed Forces Pest Management Board interface will be facilitated by Harvey's position as a drilling individual mobilization augmentee in the Army Reserve. Harvey serves as reserve counterpart to Col. Driggers, drilling at "the Board" two weeks and 12 weekends each year.

Harvey, who is a board certified entomologist, plans to work early on improved connectivity between the NavFac applied biology program manager, EFD/A pest control professionals, and regional environmental coordinators activity pest control personnel (pest control coordinators, pest control QAEs and others). A NavFac pest management home page and virtual pest control newsletter are anticipated. There is a lot of applied biology/pest management expertise scattered around the globe, says Harvey. Leveraged to its maximum, this talent represents a powerful tool that will continue to ensure that living things do not interfere with Navy or Marine Corps operations, destroy property or material, or adversely affect human health or morale. All this while minimizing the impacts of pesticides on the environment.

Other planned initiatives include ensuring adequate professional staffing to support the fleet and increased emphasis on protecting wood structures such as utility poles from decay organisms, and with the Navy Safety Center and NAVFAC Natural Resources to improve the Navy bird-aircraft strike hazard program.

## Margie Flanagan Is LantDiv Administrative Employee of the Year



In a June ceremony at LantDiv, Margaret Flanagan, a procurement technician in NorthDiv's Environmental Contracting Branch, received the gold medal as the Greater Atlantic Division's Administrative Employee of the Year, GS-7 and above, from LantDiv Commander RADM Michael Johnson. Margie tracks and audits invoice materials generated by the CLEAN and RAC cost contracts. She loaded all invoiced cost elements over the life of these contracts to facilitate ongoing indirect rate adjustments, particularly financial closeout process.

Margie reviews complex negotiation items such as the Program Management Office budgets. Her ability to verify, duplicate and modify the cost elements has freed the negotiators to concentrate on the most productive aspects of the discussions.

*(Continued on page 14)*

## In Praise of PWC's Environmental Department

By Terry Gallagher

*Environmental Engineer*

On March 30, most excessed property at the former Philadelphia Naval Complex was transferred to the City of Philadelphia. Needless to say, this 1,100-acre parcel presented a variety of unique and challenging cleanup and compliance projects.

As the on-site environmental manager in the Caretaker's Office, I had the responsibility of providing environmental engineering field support, which often involved trouble-shooting environmental issues discovered during site redevelopment. In addition, my tasks included the execution of cleanup projects and management of environmental compliance programs.

I must admit that the successful cleanup of environmental sites to facilitate property transfer would not have been realized without the support and dedication of the Public Works Center's Environmental Department under the direction of Ms. Marge Johnston. Her team of multitasking professionals assisted the Caretaker's Office by cleaning up asbestos, lead and PCBs, removing contaminated soil, and performing NPDES sampling. In addition, they enabled the environmental closure of a multitude of facilities by handling suspect hazardous materials and cleaning a variety of underground machinery sumps and process pits. And let's not forget the time they rescued a dozen or



**Marge Johnston flanked by her team of environmental professionals. From left, Tom Breslin, Tony Grassia, George Freshcoln and Mike Roberts. Not available at time of photo was Joe Meyers.**

so goslings from a storm sewer catch basin – my personal favorite. They were at times our “eyes and ears” in the field and were very responsive in picking up those mystery drums that somehow always showed up overnight!

Thanks to PWC, redevelopment of old Shipyard property by Kvaerner Construction continued unabated and they were able to stick to their aggressive construction schedule. Contamination discovered during excavation activities required the Public Works Center to pump down and clean tidally influenced utility manholes and trenches that were filled with oil and tied to the storm sewer system discharging directly to the river. They also provided round-the-clock resources which allowed Kvaerner's utility contractor to perform splice work taking place over several shifts.

Because of their efforts, quick response and environmental know-how, they were a great help in expediting cleanup obligations. Working with this group was certainly a pleasure. Don't hesitate to give them a call if your activity requires a team with a “can do” attitude.

### Welcome Aboard

Welcome aboard to Lisa Yeutter, who recently joined the Environmental Department's Hazardous Waste Branch at NorthDiv. Lisa was hired through the NavFac Professional Development Center internship program. She is a 1999 Geo-Environmental Engineering graduate of Penn State University and resides in Lansdale, PA. Lisa will be working on the Spill Prevention Control and Countermeasures (SPCC) and hazardous waste programs.



## Phytoremediation *(Continued from page 6)*

- Usually not applicable to soil impacted greater than 5 ft below ground, or impacted ground water below approximately 20 ft.
- Can be seen as an experimental remedial option by regulators or community.
- May not be applicable for source removal due to longer timeframe required for remediation.
- Does not work for all contaminants—polychlorinated biphenyls and some semivolatile compounds can be more difficult to treat.

EPA has many resources to help assist decision makers implement phytoremediation at hazardous waste sites. The most useful place to start is an EPA document entitled *Phytoremediation Resource Guide*, EPA 524-B-99-003 (June 1999). This report is available on-line from the EPA for no charge at [www.clu-in.org](http://www.clu-in.org). This document summarizes the abstracts of many important papers, and cross-references phytoremediation resources by affected media, and contaminants. Several other references are available on-line from EPA, including case studies for groundwater cleanup and soil remediation. This remedial technology may be a viable option for use at one of your sites.

[Editor's note: Phytoremediation is on NorthDiv's menu of possible ways to clean up our hazardous waste sites. We are glad to note that our consultants are keeping abreast of this emerging technology.]

## Margie Flanagan *(Continued from page 12)*

Margie also helped to convert invoicing to a paperless electronic process. She helped establish the format and methods of electronic submission and established the electronic filing system and the associated forms. She serves as the point of contact for modifying and improving the operation and uploads the invoices to an accessible digital location for review and archiving.

Margie served in a similar capacity for paperless CLEAN and RAC procurement. She was primarily responsible for establishing the architecture and naming conventions of our electronic filing system for paperless CLEAN and RAC procurement. She refined specific procedures such as signature and routing practices as well as assisting the contract specialists and COTRs in learning new computer tasks. In large part due to Margie's efforts, the environmental contracts team now performs 100% of its actions electronically!

Margie has been a major participant in best practices teams created to initiate similar procedures both on other Northern Division Headquarters teams as well as the field offices. In addition she is the environmental teams system administrator for PD2 and participates in the working group designed to facilitate and expand use of this system in NorthDiv.

Although not a requirement of her current position, Margie has obtained the requisite college business credits needed to meet the DAWIA requirements for acquisition personnel. In addition she is a graduate of the Aspiring Leader Program, presented by the Leadership Development Program of Arlington, VA. This is a competitively selected program that includes two weeks of intensive workshops as well as a six-week rotational assignment intended to develop management and organizational skills in promising GS-5 through 7 employees. Margie has also attended several Navy-sponsored classes in information technology, contracting and auditing.